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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/624,348	07/24/2000	Do-hyoung Kim	Q60039	4464

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EXAMINER

GEORGE, KEITH M

ART UNIT PAPER NUMBER

2663

DATE MAILED: 02/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/624,348

Applicant(s)

KIM, DO-HYOUNG

Examiner

Keith M. George

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 June 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4-6, 8 and 9 is/are rejected.
- 7) ☒ Claim(s) 3 and 7 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 July 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This application has been reassigned to examiner Keith M. George, AU 2663.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 4, 5, 8 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen, U.S. Patent 5,881,300, hereinafter Chen.
4. Referring to claims 1 and 8, Chen teaches a method and system for saving power in a computer system having a communication device. In figure 8, Chen teaches a series of power control processing performed from insertion of a PC card modem into a PC card socket to extraction of the PC card modem from the PC card socket. When it is detected that the PC card modem (sink device) is inserted into the PC card socket of a portable computer (source device), the power source with respect to the PC card modem is turned on and an electric current flows into the PC card modem through the PC card socket (allocating to the source device system resources required for commencement of communication between the source device and the sink device wherein the allocating is performed by the sink device) (column 7, lines 53-62). The allocating is performed by the act of inserting the card into the PC card socket. If the card is not

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inserted, then no allocation of system resources (power) is requested of the computer. Next, a device driver corresponding to this PC card modem is loaded and configuration setting processing of this device driver is performed so that the PC card modem is set to a usable state. Then, the power source of the PC card modem is turned off under control of the power saving driver (releasing at the source device redundant system resources from the source device if the requirements have changed) (column 7, lines 62-67). Thereafter, when a resource allocation of the modem is required via the modem driver from an application program, etc., the power source of the PC card modem is turned on under the control of the power saving driver (monitoring at the source device to determine if requirements for the system resource have changed and allocating additional system resources to the source device if the requirements have changed). Figure 8 finally shows the extraction of the PC card from the PC card socket is S58 which terminates the communication between the PC card (sink device) and the portable computer (source device). It also inherently releases all system resources since the PC card receives power from the portable computer.

5. Referring to claim 4, Chen teaches the method described in reference to claim 1 above and has also made clear that the power source of the PC card modem is turned off under control of the power saving driver (column 7, lines 66-67). Clearly if power is removed from the PC card modem, it would be well aware and informed of this action. Conversely, when power is restored to the PC card modem due to a change in requirements of the portable computer that requires the use of the PC card modem, the PC card would also be aware that it has been powered on and is required to perform a function.

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6. Referring to claims 5 and 9, Chen teaches the method described in reference to claims 4 and 8 above and has also clearly taught the process of extracting the PC card from the PC card slot. The extraction of the PC card provides a clear determination that the communication between the source and sink devices has been terminated.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen. Chen teaches the method described in reference to claims 1 and 4 above with the possible exception of explicitly stating that the source device contained a predetermined storage location for recording a change in requirements for the system resources. However, the source device has clearly been shown to be a portable computer and at the time the invention was made, it would have been obvious to a person of ordinary skill in the art that portable computers contain many components, one of which is memory. It would have been well-known to a person of ordinary skill in the art that the function of providing memory in a portable computer is to store data that can be used at a later time. One of ordinary skill in the art would have been motivated to store the status of the PC card modem as either having power on or off as described clearly in figure 8 in a predetermined memory location so that when the resource was required the portable computer would know if it needed to turn power on or off to the PC card modem.

Allowable Subject Matter

9. Claims 3 and 7 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

10. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith M. George whose telephone number is 571-272-3099. The examiner can normally be reached on M-Th 7:00-4:30, alternate F 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Keith M. George
3 February 2005



CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER
2/4/05